Bruhat Bengaluru
Mahanagara Palike

BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

1st & final E-Bill

Name of Work:- Construction of Anganawadi Building at JP Colony in Ward No 02.

Estimate Cost RS :- 50.00 Lakh's

Agency:- Sri RAGHUNATHA B P, No.47,2nd Main,Muneshwara Layout,Bangalore-560058.

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Measurements Taken On:- 17|08|2024

S.NO	Description of Item	Unit	No	Mesurement L	B	D	Qty	Rate	Amount
1	Engaging on Hire Basis of Tractor -Trolley for conveying of excavated and removal of stuff from work spot.**(Log Book Enclosed)**								
		Hr	23Day	8 Hour			184.00		
			28Day	8 Hour			224.00		
			9Day	8 Hour			72.00		
						Total Qty	**480.00**	681.66	**327196.80**
2	Labour charges to unskilled mazdoor heavy.**(Log Book Enclosed)**								
		Day	23Day	5 No			115.00		
			28Day	5 No			140.00		
			9Day	5 No			45.00		
						Total Qty	**300.00**	500.66	**150198.00**
3	Concrete cutting machine.**(Log Book Enclosed)**								
		Hr	23Day	8 Hour	6 No		1104.00		
			28Day	8 Hour	6 No		1344.00		
			9Day	8 Hour	6 No		432.00		
						Total Qty	**2880.00**	187.41	**539740.80**
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m.								
	(Page 16) Quantity Vide As Per Pre-Measurement are Prepared in Excel Sheets:-	Cum					128.30		
						Total Qty	**128.30**	225.40	**28919.50**
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.Specification								
	(Page. No 17) Quantity Vide As Per Pre-Measurement are Prepared in Excel Sheets:-	Cum					18.03		
						Total Qty	**18.03**	6515.12	**117461.10**
6	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6								
	(Page. 18) Quantity Vide As Per Pre-Measurement are Prepared in Excel Sheets:-	Cum					13.78		
						Total Qty	**13.78**	7236.63	**99746.09**

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Yelahanka Sub. Divisor
(BBMP Ynk. Zn)
Yelahanka, Bangalore

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7	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates									
	Coping Concrete:-Long wall	Cum	2	6.10	0.45	0.15	0.82			
	short wall		3	3.80	0.45	0.15	0.77			
	Chambers		8	0.70	0.15	0.15	0.13			
			4	0.45	0.15	0.15	0.04			
						Total Qty	**1.76**	6904.76	**12148.93**	
8	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.									
	Filling Available of Excavated Earth	Cum	Quantity Vide Item No-4				128.30			
	(-)Deductions:-						**128.30**			
	PCC:-Footing's		6	2.40	2.40	0.20	6.91			
	SSM Foundation:-Long wall		2	6.45	0.90	0.15	1.74			
	short wall		3	3.35	0.90	0.15	1.36			
	Sump		1	3.60	3.30	0.20	2.38			
	Chambers		2	0.75	0.75	0.15	0.17			
	Below GLSSM:- 1st footing:-Long wall		2	6.30	0.80	0.45	4.54			
	short wall		3	3.50	0.80	0.45	3.78			
	Staircase		1	0.80	0.80	0.45	0.29			
	2nd footing:-Long wall		2	6.20	0.60	0.20	1.49			
	short wall		3	3.65	0.60	0.20	1.31			
	Staircase		1	0.80	0.60	0.20	0.10			
	Steps:-Front		1	1.20	0.30	0.15	0.05			
	Side		1	0.80	0.45	0.15	0.05			
	Footings:-		6	2.10	2.10	0.60	15.88			
	Pedestal's		6	0.80	0.80	0.60	2.30			
	Coloumn 's		6	0.60	0.20	0.30	0.22			
							42.56			
						Total Qty	**85.74**			
						Limited To Approved Schedule'B' Qty	**80.97**	181.23	**14674.19**	
9	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum.									
	Excavated Earth	Cum	Quantity Vide Item No-4				128.30			
			Quantity Vide Item No-8				85.74			
						Total Qty	**214.05**			
						Limited To Approved Schedule'B' Qty	**209.66**	97.41	**20422.98**	
10	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km									
	T.Km		214.05		1.28		273.98			
						Total Qty	**273.98**			
						Limited To Approved Schedule'B' Qty	**268.36**	121.09	**32495.71**	
11	Providing and constructing laterite size stone masonry including cost and conveyance of all material curing etc complete as per specification IS 3620/1979 having compressive strength not less than 3.5N/mm2 for saturated dry samples- for super structure in CM 1:6									
	Basement:-Long wall	Cum	2	6.10	0.45	0.40	2.20			
	Short wall		3	3.80	0.45	0.40	2.05			

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								Total Qty	4.25		
								Limited To Approved Schedule'B' Qty	4.08	4481.98	18286.48
12	Providing Flush/ Ruled pointing: Pointing on stone work with cementmortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.										
		Basement:-Long wall	Sqm	1	6.00		0.35	2.10			
		Short wall		1	4.70		0.35	1.65			
								Total Qty	**3.75**	288.83	**1081.67**
13	Providing and laying in position Reinforced cement concrete for all **Sub structures of building,** Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates										
		Footings:-	Cum	6	2.10	2.10	0.60	15.88			
		Pedestal's		6	0.80	0.80	0.60	2.30			
		Sump Bottom		1	3.30	3.00	0.30	2.97			
		Side Walls		2	3.30	0.20	2.40	3.17			
				2	2.90	0.20	2.40	2.78			
		Cover slab		1	3.30	3.00	0.20	1.98			
		Plinth Beam:-Longer span		2	6.10	0.30	0.45	1.65			
		Shorter Span		3	4.15	0.30	0.45	1.68			
		Band Concrete for Front		1	5.70	0.75	0.25	1.07			
								Total Qty	**33.48**	7705.46	**257967.24**
14	Providing and laying in position Reinforced cement concrete for all **Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates Ground floor										
		GF Coloumn:-Up to plinth beam	Cum	6	0.45	0.20	0.85	0.46			
		Up To Lintel		6	0.45	0.20	2.10	1.13			
		Lintel To Tie Beam		6	0.45	0.20	0.45	0.24			
								Total Qty	**1.84**	8088.62	**14850.71**
15	Lintels										
		GF:-Long wall's	Cum	2	6.00	0.20	0.20	0.48			
		Short wall's		2	4.30	0.20	0.20	0.34			
		GF:-Chejja		1	1.50	0.45	0.10	0.07			
				1	2.25	0.45	0.10	0.10			
		FF:-Chejja's		1	2.10	0.45	0.10	0.09			
		Above Roof Columns		1	0.45	0.20	0.80	0.07			
								Total Qty	**1.16**		
								Limited To Approved Schedule'B' Qty	**1.14**	8823.95	**10059.30**
16	Roof Slab		Cum								
		GF:- Roof		1	6.00	4.65	0.15	4.19			
				1	3.00	1.35	0.15	0.61			
		Stairecase:-Beam		1	0.80	0.45	0.45	0.16			
		GF:-1st flight		1	3.60	0.75	0.15	0.41			
		Landing		1	1.35	1.20	0.15	0.24			

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		2nd flight		1	1.35	0.75	0.15	0.15			
		Landing		1	1.65	0.75	0.15	0.19			
		Steps	0.50	16	0.75	0.25	0.15	0.45			
							Total Qty	**6.38**	8823.95	**56296.80**	
17	Beam										
			Cum								
		GF:-Longer Span		2	6.00	0.20	0.30	0.72			
		Shorter Span		3	4.30	0.20	0.30	0.77			
				2	1.35	0.20	0.30	0.16			
							Total Qty	**1.66**			
							Limited To Approved Schedule'B' Qty	**1.55**	8823.95	**13677.12**	
18	First floor,Columns										
			Cum								
		FF:-Column's:-Up To Lintel		6	0.45	0.20	2.10	1.13			
		Lintel To Tie Beam		6	0.45	0.20	0.45	0.24			
		Above Roof Columns		5	0.45	0.20	0.80	0.36			
							Total Qty	**1.74**			
							Limited To Approved Schedule'B' Qty	**1.66**	8169.51	**13561.39**	
19	Lintels										
			Cum								
		FF:-Long wall's		2	6.00	0.20	0.20	0.48			
		Short wall's		2	4.65	0.20	0.20	0.37			
		Partition walls:-Long Wall's		1	1.80	0.10	0.15	0.03			
		Short wall's		1	1.80	0.10	0.15	0.03			
				1	2.25	0.10	0.15	0.03			
				1	1.20	0.10	0.15	0.02			
							Total Qty	**0.96**			
							Limited To Approved Schedule'B' Qty	**0.93**	8912.19	**8288.34**	
20	Roof Slab										
			Cum								
		FF:- Roof		1	6.00	4.65	0.15	4.19			
		GF:-1st flight		1	3.00	1.40	0.15	0.63			
		Landing		1	3.60	0.75	0.15	0.41			
		2nd flight		1	1.40	1.20	0.15	0.25			
		Landing		1	1.35	0.75	0.15	0.15			
		Steps	0.50	1	1.65	0.75	0.15	0.19			
				16	0.75	0.25	0.15	0.45			
							Total Qty	**6.26**	8912.19	**55785.85**	
21	Beam										
			Cum								
		FF:-Longer Span		2	6.00	0.20	0.35	0.84			
		Shorter Span		3	4.30	0.20	0.35	0.90			
		Portica Beams		2	1.35	0.20	0.35	0.19			
							Total Qty	**1.93**			
							Limited To Approved Schedule'B' Qty	**1.80**	8912.19	**16041.94**	
22	Providing and laying in position plain cement concrete for levellingcourse for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates										
		Flooring:-GF	Cum	2	2.75	4.35	0.15	3.59			
				1	6.20	1.35	0.10	0.84			

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		Steps:-Front		2	1.20	0.30	0.10	0.07		
		Side		3	0.80	0.25	0.10	0.06		
		Chambers		4	0.75	0.15	0.10	0.05		
				4	0.45	0.15	0.10	0.03		
		Sump Inside		1	3.00	2.70	0.10	0.81		
						Total Qty		**5.44**	6712.20	**36512.69**
23	Providing Thermo-Mechanically Treated bars of grade Fe-550 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)									
	(Page-No 19-22) Quantity Vide As Per Pre-Measurement are Prepared in Excel Sheets:-	Kg's						9417.30		
						Total Qty		**9417.30**	108.74	**1024037.37**
24	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. Ground floor									
	GF:-Long wall	Sqm	2	6.00		3.00		36.00		
	Short wall		2	4.30		3.00		25.80		
	In front of Passage Wall		1	6.00		0.55		3.30		
	Side wall's		2	0.55		0.55		0.61		
								65.71		
	(-)Deduction									
	D		1	1.20		2.10		2.52		
	W		2	1.20		1.20		2.88		
								5.40		
						Total Qty		**60.31**		
	Limited To Approved Schedule'B' Qty							**60.15**	1483.80	**89250.57**
25	First floor:-	Sqm								
	FF:-Long wall		2	6.00		3.00		36.00		
	Short wall		2	4.30		3.00		25.80		
	Portica Bottom		1	1.35		0.90		1.22		
								63.02		
	(-)Deduction									
	D		1	1.20		2.10		2.52		
	W		1	0.90		0.75		0.68		
	V		1	0.70		0.55		0.39		
	V1		1	0.45		0.55		0.25		
								3.83		
						Total Qty		**59.19**		
	Limited To Approved Schedule'B' Qty							**59.07**	1498.64	**88524.66**
26	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.									
	Parapet wall:-long wall	Sqm	1	6.00		0.90		5.40		
			1	2.85		0.90		2.57		
			1	4.50		0.90		4.05		
	short wall		1	6.10		0.90		5.49		
			1	4.30		0.90		3.87		
			1	0.75		0.90		0.68		
	Chambers		4	0.75		0.60		1.80		

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				4	0.45		0.60	1.08		
	Steps:-Front			1	1.20	0.50		0.60		
				1	1.20	0.25		0.30		
	Side			1	0.80	0.75		0.60		
				1	0.80	0.50		0.40		
				1	0.80	0.25		0.20		
						Total Qty		**27.03**		
	Limited To Approved Schedule'B' Qty							**25.92**	1394.32	**36140.77**
27	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.									
	Partition walls:-Long Wall's	Sqm		1	1.80		3.00	5.40		
				1	1.80		3.00	5.40		
	Short wall's			1	2.25		3.00	6.75		
				1	1.20		3.00	3.60		
	GF:-Staircase Landing Wall			1	0.90		0.90	0.81		
				1	1.35		0.90	1.22		
	FF:-Staircase Landing Wall			1	0.90		0.90	0.81		
				1	1.35		0.90	1.22		
	Portica Bottom			1	1.35		0.90	1.22		
								26.42		
	D1			2	0.75		2.10	3.15		
						Total Qty		**23.27**		
	Limited To Approved Schedule'B' Qty							**22.86**	1250.47	**28585.74**
28	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.									
	GF& FF,External Plastering:-Long wall	Sqm		2	6.00		7.80	93.60		
	Short wall			2	4.70		7.80	73.32		
	Roof Surface			1	5.70	4.35		24.80		
				1	2.85	1.45		4.13		
				1	1.65	0.75		1.24		
	Parapet:-Inside & Top wall			1	5.70		1.10	6.27		
				1	5.75		1.10	6.33		
				1	4.30		1.10	4.73		
				1	4.50		1.10	4.95		
				1	2.85		1.10	3.14		
								222.50		
	(-)Deduction									
	GF:-D	0.50		1	1.20		2.10	1.26		
	W	0.50		2	1.20		1.20	1.44		
	FF:-D	0.50		1	1.20		2.10	1.26		
	W	0.50		1	0.90		0.75	0.34		
	V	0.50		1	0.70		0.55	0.19		
	V1	0.50		1	0.50		0.55	0.14		
								4.63		
						Total Qty		**217.87**	436.08	**95007.66**

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29	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications .								
	GF,Internal Plastering:-Room Walls	Sqm	2	5.70		3.00	34.20		
			2	4.30		3.00	25.80		
	Cealing		2	2.70	4.30		23.22		
	First floor:-Long wall		2	5.70		3.00	34.20		
	Short wall		2	4.30		3.00	25.80		
	Partition walls above lintel:-Long Wall's		2	1.80		0.75	2.70		
			2	1.80		0.75	2.70		
	Short wall's		2	2.25		0.75	3.38		
			2	1.20		0.75	1.80		
	GF:-Stairecase Landing Wall		2	0.90		0.90	1.62		
			2	1.35		0.85	2.30		
	FF:-Stairecase Landing Wall		2	0.90		0.90	1.62		
			2	1.35		0.90	2.43		
	Portica Bottom		2	1.35		0.90	2.43		
							164.19		
	(-)Deductions								
	GF:-D		1	1.20		2.10	2.52		
	W		2	1.20		1.20	2.88		
	FF:-D		1	1.20		2.10	2.52		
	D1		2	0.75		2.10	3.15		
	W		1	0.90		0.75	0.68		
	V		1	0.70		0.55	0.39		
	V1		1	0.60		0.55	0.33		
							12.46		
					Total Qty		**151.73**	365.85	**55510.42**
30	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications ,								
	Rough plastering:-kitchen Room	Sqm	2	2.20		2.15	9.46		
			2	1.65		2.15	7.10		
	Toilet		2	1.20		2.15	5.16		
			2	1.65		2.15	7.10		
	Out side face		1	1.85		2.15	3.98		
			1	0.95		2.15	2.04		
			1	1.80		2.15	3.87		
			2	1.35		2.15	5.81		
			1	0.60		2.15	1.29		
							45.80		
	(-)Deductions								
	D1		2	0.75		2.10	3.15		
	V		1	0.70		0.55	0.39		
	V1		2	0.50		0.55	0.55		
							4.09		
					Total Qty		**41.71**	395.30	**16487.96**
31	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.								
	Internal Plastering	Sqm	Quantity Vide item No-29				151.73		
					Total Qty		**151.73**	113.27	**17186.46**

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32	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.								
	Internal Painting	Sqm	Quantity Vide item No-31				151.73		
						Total Qty	**151.73**	130.26	**19764.35**
33	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications.								
	External painting	Sqm	Quantity Vide item No-20				217.87		
						Total Qty	**217.87**	201.62	**43926.45**
34	Providing and laying 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per direction of Engineer incharge.								
	Hardener concrete:-GF	Sqm	2	2.70	4.30		23.22		
	FF		1	2.70	4.30		11.61		
						Total Qty	**34.83**		
	Limited To Approved Schedule'B' Qty						**32.49**	906.14	**29440.49**
35	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. ** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent.								
	GF,Flooring Area	Sqm	1	5.70	4.30		24.51		
	Skirting		2	5.70		0.10	1.14		
			2	4.30		0.10	0.86		
	front		1	6.00	0.75		4.50		
	Skirting		1	6.00		0.50	3.00		
			2	0.75		0.50	0.75		
	Steps:-Front:-Threads		2	1.20	0.25		0.60		
	Rises		3	1.20		0.15	0.54		
	Side:-Threads		3	0.80	0.25		0.60		
	Rises		4	0.80		0.15	0.48		
	Stairecase:-								
	Landing		1	1.35	1.20	0.15	0.24		
	Steps		16	0.75	0.25		3.00		
			18	0.75		0.15	2.03		
	Skirting		1	3.50		0.15	0.53		
			1	1.20		0.15	0.18		
			1	1.35		0.15	0.20		
			2	1.50		0.15	0.45		
	FF,Flooring Area		1	3.30	4.30		14.19		
	front		1	2.85	1.35		3.85		
			1	1.65	0.75		1.24		
	Skirting		2	3.30		0.10	0.66		
			1	4.30		0.10	0.43		
			2	2.85		0.10	0.57		
			1	1.35		0.10	0.14		
	Stairecase:-								
	Landing		1	1.35	1.20	0.15	0.24		
	Steps		16	0.75	0.25		3.00		
			18	0.75		0.15	2.03		

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	Skirting		1	3.50		0.15	0.53		
			1	1.20		0.15	0.18		
			1	1.35		0.15	0.20		
			2	1.50		0.15	0.45		
					Total Qty		**71.30**	3230.37	**230328.61**
36	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per m2 including pointing in white cement mixed with pigment of matching shade complete.								
	kitchen	Sqm	1	2.20	1.65		3.63		
	Toilet		1	1.65	1.25		2.06		
	Open space		1	0.60	1.20		0.72		
	Passage		1	2.40	1.00		2.40		
			1	4.30	0.30		1.29		
					Total Qty		**10.10**		
	Limited To Approved Schedule'B' Qty						**10.08**	1252.73	**12627.52**
37	Providing skirting, dadooing, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.								
	Wall cladding Tiles:-kitchen Room	Sqm	2	2.20		2.20	9.68		
			2	1.65		2.20	7.26		
	Toilet		2	1.65		2.20	7.26		
			2	1.25		2.20	5.50		
	Partition Out face Walls		1	1.85		2.20	4.07		
			1	1.00		2.20	2.20		
			1	1.80		2.20	3.96		
	Open space		2	1.20		2.20	5.28		
			1	0.60		2.20	1.32		
							46.53		
	(-)Deductions								
	D1	0.50	4	0.75		2.10	3.15		
	V	0.50	1	0.70		0.55	0.39		
	V1	0.50	1	0.50		0.55	0.28		
							3.81		
					Total Qty		**42.72**		
	Limited To Approved Schedule'B' Qty						**41.76**	1641.24	**68538.18**
38	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.								
	GF:-D	**Nos**	1				1.00		
	FF:-D		1				1.00		
	D1		2				2.00		
					Total Qty		**4.00**	1150.79	**4603.16**
39	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.								
	GF&FF:-D	Cum	2	6.00	0.15	0.10	0.18		
					Total Qty		**0.18**	156392.28	**28150.61**

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40	Providing and fixing in position fully panelled Honne wood shutters for doors with , stiles and rails of 35mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)									
	GF:-D	Sqm	1	1.20		2.10	2.52			
	FF:-D		1	1.20		2.10	2.52			
	D1		2	0.75		2.10	3.15			
					Total Qty		8.19			
	Limited To Approved Schedule'B' Qty						7.56	8024.97	60668.77	
41	Painting wood work with Deluxe Multi Surface Paint of required shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @0.75 ltr/10 m² of approved brand and manufacture to give an even shade including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.									
	D1	Sqm	2	6.00		0.10	1.20			
					Total Qty		1.20	156.31	187.57	
42	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made).									
	GF:-W	Sqm	2	1.20		1.20	2.88			
			1	0.90		1.20	1.08			
	FF:-W		1	0.90		0.75	0.68			
	V		1	0.75		0.60	0.45			
	V1		1	0.55		0.55	0.30			
					Total Qty		5.39	6477.74	34898.82	
43	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.									
	GF:-W	Kg	2	1.20		1.20	2.88			
	FF:-W		1	0.90		0.75	0.68			
	V		1	0.70		0.55	0.39			
	V1		1	0.50		0.55	0.28			
	Staire case Grill:-GF		1	3.60		0.90	3.24			
			1	1.35		0.90	1.22			
	Front Face Ground floor Grill		1	0.90		2.10	1.89			
			1	1.35		2.10	2.84			
			1	1.20		2.10	2.52			
			1	1.35		2.10	2.84			
			1	4.50		2.10	9.45			
	FF Beam Bottom		1	1.35		1.80	2.43			
	Staire case Grill:-FF		1	3.60		0.90	3.24			
			1	1.35		0.90	1.22			
			1	1.65		0.90	1.49			
	Front Face First floor Grill		1	0.90		1.50	1.35			
			1	1.35		1.50	2.03			
			1	1.20		1.50	1.80			
			1	1.35		1.50	2.03			
			1	3.55	1.35		4.79			
							48.56			
				21kg /1 Sqm Area			1019.81			
						Say	1020.00			

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						Total Qty	**1020.00**	207.59	**211741.80**
44	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer including cost of materials ,labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.								
	Door's	Sqm	1	1.65		2.20	3.63		
						Total Qty	**3.63**		
						Limited To Approved Schedule'B' Qty	**3.60**	9373.98	**33746.33**
45	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @ 0.80 ltr/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.								
	GF:-W	Sqm	4	1.20		1.20	5.76		
	FF:-W		2	0.90		0.75	1.35		
	V		2	0.70		0.55	0.77		
	V1		2	0.45		0.55	0.50		
	GF:-D		2	1.20		2.10	5.04		
	FF:-D		2	1.20		2.10	5.04		
	D1		4	0.75		2.10	6.30		
						Total Qty	**24.76**		
						Limited To Approved Schedule'B' Qty	**23.40**	157.44	**3684.10**
46	Providing and laying water proofing treatment to the Water tanks & Liquid Retaining structures with two component acrylic polymer modified cementitious waterproofing membrane with minimum elongation of 50% applied @ 1.5 kg/m2 for internal side waterproofing in two layers with waiting period of 4-6 hrs per layer and food grade epoxy coating in two coats certified by CFTRI Mysuru, including surface preparation completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge.								
	Roof Area	Sqm	1	5.90	4.60		27.14		
			1	2.85	1.45		4.13		
			1	1.65	0.70		1.16		
						Total Qty	**32.43**	574.26	**18621.82**
47	Providing and placing on terrace(at all floor levels), polyethylene water storage tanks as per IS 12701 marked,with cover and suitable locking arrangement and making necessary holes for inlet,outlet and overflow pipes but without fittings and the base support for tank(For 1000 litre capacity)								
	Sintex Tank	Ltr	2000				2000.00		
						Total Qty	**2000.00**	10.19	**20380.00**
48	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required W.C. pan with ISI marked white solid plastic seat and lid								
	WC Pan	Each	1				1.00		
			1				1.00		
						Total Qty	**2.00**	5479.86	**10959.72**
49	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :One urinal basin with 5 litre white P.V.C. automatic flushing cistern								
	Urinals	Each	2				2.00		
						Total Qty	**2.00**	5044.91	**10089.82**
50	PTMT grating 100 mm dia.								
	Grating	Each	2				2.00		

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						Total Qty	**2.00**	16.99	**33.98**
51	White Vitreous China Flat back wash basin size 550x 400 mm								
	Wash Basin	Each	2				2.00		
						Total Qty	**2.00**	622.97	**1245.94**
52	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore								
	Bib Cock	Nos.	12				12.00		
						Total Qty	**12.00**	345.46	**4145.52**
53	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore								
	Stop Cock	Nos.	2				2.00		
						Total Qty	**2.00**	345.46	**690.92**
54	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore								
	Valve	Nos.	2				2.00		
						Total Qty	**2.00**	355.66	**711.32**
55	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame								
	Mirror	Each	2				2.00		
						Total Qty	**2.00**	815.52	**1631.04**
56	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,) 20mm nominal dia pipes								
	Sanitary & Waste water line Pipe	Mtr	8	6.00			48.00		
						Total Qty	**48.00**	429.28	**20605.44**
57	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion, [i] single socketed pipes 100mm diameter								
	Rain Water pipes	Mtr	2	6.00			12.00		
						Total Qty	**12.00**	329.61	**3955.32**
58	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work.								
	Filling:-	Cum	2	2.70	4.30	0.75	17.42		
			1	5.70	0.55	0.55	1.72		
	Steps:-Front		1	1.20	0.30	0.45	0.16		
	Side		1	0.80	0.45	0.45	0.16		
						Total Qty	**19.46**	455.33	**8862.20**
59	Providing and laying water proofing treatment to the Water tanks & Liquid Retaining structures with two component acrylic polymer modified cementitious waterproofing membrane with minimum elongation of 50% applied @ 1.5 kg/m2 for internal side waterproofing in two layers with waiting period of 4-6 hrs per layer and food grade epoxy coating in two coats certified by CFTRI Mysuru, including surface preparation completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge.								
	For sump								
	Bottom slab	Sqm	1	3.30	3.00		9.90		
	Sump walls		2	3.30		2.40	15.84		
			2	3.00		2.40	14.40		
	Cover slab		1	3.00	2.70		8.10		
						Total Qty	**48.24**	574.26	**27702.30**

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60	Supply and delivery of Centrifugal pumpset at site brand new best make and with discharge duty confirming to ISI standards and its latest amendments2 HP, Size 50x40 Head 22M, Discharge 186 LPM									
		Motor	Each	1				1.00		
							Total Qty	**1.00**	19787.74	**19787.74**
61	Open conduit System: Supplying heavy gauge PVC conduit pipe .....dia confirming to IS 2509 with suitable size bends, plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using WF screws.a) 19/20mm dia 2mm thick									
		Mtr	1	350.00				350.00		
							Total Qty	**350.00**	70.02	**24507.00**
62	Supplying and flush mounting teak wooden box without front plank, made of not less than 15mm thick wood, after due groove cutting, necessary masonry patch work complete. d)8"x6"x3"(203x152x76mm)									
		Each	6					6.00		
							Total Qty	**6.00**	77.23	**463.38**
63	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials a) Short point upto 3Mtr from tapping point to out let via switch									
		Point	8					8.00		
							Total Qty	**8.00**	284.20	**2273.60**
64	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials b) Medium point above 3Mtr upto 6Mtr from tapping pointr to out let via switch									
		Each	4					4.00		
							Total Qty	**4.00**	397.46	**1589.84**
65	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materialsc)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch									
		Each	6					6.00		
							Total Qty	**6.00**	583.84	**3503.04**
66	Supplying 6A flush/projected type socket and a 6 amps flush/ projected type SP switch either surface/flush mounting in a exisiting gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. b) 6Amps 3/5 way									
		Each	1					1.00		
							Total Qty	**1.00**	147.25	**147.25**
67	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.a) 1.5 sqmm									
		Mtr	1	325.00				325.00		
							Total Qty	**325.00**	26.77	**8700.25**
68	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.b)2.5Sqmm									
		Mtr	1	360.00				360.00		
							Total Qty	**360.00**	41.19	**14828.40**
69	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.c) 4 sqmm									
		Mtr	1	335.00				335.00		
							Total Qty	**335.00**	60.75	**20351.25**

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70	Supplying 4mm thick plastic sheet with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws								
		Sq cm	1500				1500.00		
						Total Qty	**1500.00**	0.30	**450.00**
71	Supplying and fixing retrofit type -PL-LED lamp...W LED linear Source with CCT 6500 degree K, CRI>70%efficacy>80 lumen per watt,life>25000 burning hours and compliance to IS 10322/IEC 60598,LM 79 and LM80.The LED are driven by HF electronicdriver integrated in the system, with PF>0.95, power loss Should <5% of lam Wattage.,short Circuit and open circuit Protection to be integrated Circuit, THD less than 20%,life as per LM79.the operating input voltage should be between130 t 275 volts.Tested by NABL/CPRI accredited laboratory with 2 years Warranty agnist any manufacturing defect working under standard electrical condition.18-20Watts								
		Each	18				18.00		
						Total Qty	**18.00**	711.52	**12807.36**
72	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply								
		Each	8				8.00		
						Total Qty	**8.00**	135.92	**1087.36**
73	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with plank made out of not more than 2 pices and fixing the same to the wall using tapered inverted woode plug screws etc., a) 20"x20"2.5"								
		Each	4				4.00		
						Total Qty	**4.00**	324.36	**1297.44**
74	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.a) 32Amps								
		Each	6				6.00		
						Total Qty	**6.00**	205.94	**1235.64**
75	Supply of an load charge over switches 4poles 415v 50Hz A.C supply with AC23A duty a) up to 63amps Groups A								
		Each	1				1.00		
						Total Qty	**1.00**	5338.99	**5338.99**
76	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required. e)6-32amps TPN . Group A								
		Each	1				1.00		
						Total Qty	**1.00**	2470.25	**2470.25**
77	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required. 6-32amps TPN Group A								
		Each	1				1.00		
						Total Qty	**1.00**	1829.78	**1829.78**
78	Supplying, fixing and wiring Electronic Trivector Meter (ETV) 5 to 32/63 A three phase 4 wire whole current class-1 Accuracy Energy Meter.								
		Each	2				2.00		
						Total Qty	**2.00**	5277.21	**10554.42**
79	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia								
		Nos.	1				1.00		
						Total Qty	**1.00**	3088.07	**3088.07**

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80	Supplying and running of GI/Copper strips for grounding connections using necessary fixing material as required GI strip 25x3mm								
		Mtr	1	30.00			30.00		
					Total Qty		**30.00**	77.23	**2316.90**
81	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. a) 40mm								
		Mtr	1	4.00			4.00		
					Total Qty		**4.00**	344.95	**1379.80**
								Total RS	**4348095.10**
							Add 18% of GST Charges		782657.12
								Sub Total RS	5130752.22
82	Bescom Deposite Charges	No	1				1.00		
					Total Qty		**1.00**	15000.00	**15000.00**
								Grand Total RS	**5145752.22**

CERTIFICATE:

1) Certified that the above work done is satisfactory completed.
2) Certified that the there is no issue of Department tools.

Assistant Engineer
Ward No-02

Asst. Executive Engineer
Yelahanka Sub Division
BBMP Bangalore

Assistant Executive Engineer
Yelahanka Sub Division
BBMP

17/08/2024

PRE-MEASUREMENT

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work :- Construction of Anganawadi Building at JP Colony in Ward No 02.

Agency:- Sri RAGHUNATHA B P, No.47,2nd Main,Muneshwara Layout,Bangalore-560058.

Measurements Taken On:- 15/03/2024

S.NO	Description of Item	Unit	No	Mesurement L	Mesurement B	Mesurement D	Qty	Remarks
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m.							
	Footing's:-F1	Cum	6	2.40	2.40	1.95	67.39	
	Sump		1	3.60	3.30	2.70	32.08	
	SSM Foundation:-Long wall		2	6.45	0.90	0.80	9.29	
	short wall		3	3.35	0.90	0.80	7.24	
	Front		1	6.20	0.80	0.35	1.74	
	Chambers		2	0.75	0.75	0.60	0.68	
	Sanitary line		1	15.00	0.60	1.10	9.90	
					Total Qty		**128.30**	

Assistant Engineer
Ward No-02

Asst. Executive Engineer
Yelahanka Sub. Divisor

Assistant Executive Engineer
Yelahanka Sub Division

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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work :- Construction of Anganawadi Building at JP Colony in Ward No 02.

Agency:- Sri RAGHUNATHA B P, No.47,2nd Main,Muneshwara Layout,Bangalore-560058.

Measurements Taken On:- 22/04/2024

S.NO	Description of Item	Unit	No	Mesurement L	Mesurement B	Mesurement D	Qty	Remarks
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.Specification							
	Footing's:-F1	Cum	6	2.40	2.40	0.20	6.91	
	SSM Foundation:-Long wall		2	6.45	0.90	0.15	1.74	
	short wall		3	3.35	0.90	0.15	1.36	
	Sump		1	3.60	3.30	0.20	2.38	
	Chambers		2	0.75	0.75	0.15	0.17	
	Flooring		2	2.75	4.30	0.20	4.73	
	Front		1	6.20	0.80	0.15	0.74	
					Total Qty		**18.03**	

Assistant Engineer
Ward No-02

Asst. Executive Engineer
Yelahanka Sub. Divisor
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Assistant Executive Engineer
Yelahanka Sub Division

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BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work :- Construction of Anganawadi Building at JP Colony in Ward No 02.

Agency:- Sri RAGHUNATHA B P, No.47,2nd Main,Muneshwara Layout,Bangalore-560058.

Measurements Taken On:- 15/06/2024

S.NO	Description of Item	Unit	No	Mesurement L	Mesurement B	Mesurement D	Qty	Remarks
6	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6							
	Below GL 1st footing:-Long wall	Cum	2	6.30	0.80	0.45	4.54	
	short wall		3	3.50	0.80	0.45	3.78	
	Stairecase		1	0.80	0.80	0.45	0.29	
	2nd footing:-Long wall		2	6.20	0.60	0.35	2.60	
	short wall		3	3.65	0.60	0.35	2.30	
	Stairecase		1	0.80	0.60	0.35	0.17	
	Steps:-Front		1	1.20	0.30	0.15	0.05	
	Side		1	0.80	0.45	0.15	0.05	
					Total Qty		**13.78**	

Assistant Engineer
Ward No-02

Assistant Executive Engineer
Yelahanka Sub Division

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work :- Construction of Anganawadi Building at JP Colony in Ward No 02.

Agency:- Sri RAGHUNATHA B P, No.47,2nd Main,Muneshwara Layout,Bangalore-560058.

Measurements Taken On:- 18/04/2024

S.NO	Description of Item	Unit	No	Mesurement L	Mesurement B	Mesurement D	Qty	Remarks
23	Providing Thermo-Mechanically Treated bars of grade Fe-550 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)							
	Ground floor							
	Footings:-	Kg.s						
	12mm Dia @ Both Ways(0.10c/c)	84	6	3.20	1612.80			
					1612.80	0.89	**1435.39**	
	Columns:- 20 mm Dia Vertical Main Rods	8	6	6.00	288.00			
					288.00	2.42	**696.96**	
	Stirrupps, 8 mm Dia (0.20c/c)							
	Single Stirrup's	12	6	1.20	86.40			
	Double Stirrup's	24	6	0.70	100.80			
					187.20	0.39	**73.01**	
	Pedestal's							
	Main Vertical Rods 10mm Dia(.30c/c)	12	6	1.80	129.60			
					129.60	0.62	**80.35**	
	Stirrupps 8mm Dia(0.20c/c)	13	6	2.50	195.00			
					195.00	0.39	**76.05**	
	Sump:-							
	Main Rods 12 mm Dia (0.12c/c) Bottom Rods	28	7.50		210.00			
		26	7.80		202.80			
	Top Rods	26	7.10		184.60			
		24	7.70		184.80			
					782.20	0.89	**696.16**	
	Distrubution Rods 10 mm Dia (0.15c/c) Bottom Rods	23	11.00		253.00			
	Top Rods	21	10.30		216.30			
					2033.70	0.39	**793.14**	
	Cover Slab							
	Main Rods 12 mm Dia (0.12c/c) Bottom Rods	28	3.20		89.60			
	Top Rods	26	3.20		83.20			
					172.80	0.89	**153.79**	
	Distrubution Rods 10 mm Dia (0.15c/c) Bottom Rods	22	3.50		77.00			
	Top Rods	22	3.50		77.00			
					499.60	0.62	**309.75**	
	Measurements Continued on:- 30/04/2024							
	Plinth Beam :-							
	Top Rods,20 mm Dia							
	PB1	2	2	18.00	72.00			
	PB2	2	3	11.80	70.80			
	Top Rods,16 mm Dia							
	PB1	2	2	18.00	72.00			
	PB2	2	3	11.80	70.80			
	Bottom Rods,:-12 mm Dia							
	PB1	4	2	18.00	144.00			

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(BBMP Ynk. Zn)
Yelahanka, Bangalore

PB2	4	3	11.80	141.60			
				571.20	2.42	**1382.30**	
Stirrup,s 8mm Dia (0.20c/c)							
PB1	30	2	1.20	72.00			
PB2	26	3	1.20	93.60			
				165.60	0.39	**64.58**	

Measurements Continued on:- 23/05/2024

Lintel Beam :-

Main Bottom & Top Rods,12 mm Dia						
	2	2	6.20	24.80		
	2	2	5.10	20.40		
				45.20	0.89	**40.23**
10mm Dia						
	4	2	6.20	49.60		
	4	2	5.10	40.80		
				90.40	0.62	**56.05**
Stirrup,s 8mm Dia (0.20c/c)						
	29	2	0.80	46.40		
	24	2	0.80	38.40		
				84.80	0.39	**33.07**

Cheji's:-

Main Rods 8mm Dia (0.15c/c)						
GF:-Chejja	11	1	1.20	13.20		
	14	1	1.20	16.80		
Distrubution Rods 8mm Dia(0.20c/c)						
GF:-Chejja	5	1	1.45	7.25		
	5	1	2.05	10.25		
				47.50	0.39	**18.53**
Staire case:-Main Rods 10mm Dia (0.12c/c)						
1st flight	7	1	6.00	42.00		
Landing	2	1	1.35	2.70		
2nd flight	19	1	4.50	85.50		
				130.20	0.62	**80.72**
Distrubution Rods 8mm Dia(0.15c/c)						
1st flight	35	1	0.75	26.25		
Landing	13	1	1.50	19.50		
2nd flight	17	1	0.75	12.75		
				58.50	0.39	**22.82**

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(BBMP Ynk. Zn)
Yelahanka, Bang

Measurements Continued on:- 07/06/2024

Tie Beam :-

Top Rods,20 mm Dia						
TB1	3	2	6.80	40.80		
TB2	4	2	7.20	57.60		
	4	1	5.80	23.20		
				121.60	2.42	**294.27**
Bottom Rods,:-16 mm Dia						
TB1	4	2	6.80	54.40		
TB2	3	2	7.20	43.20		
	3	1	5.80	17.40		
				115.00	1.58	**181.70**

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(BBMP Ynk. Zn)

Stirrup,s 8mm Dia (0.20c/c)							
TB1	30	2	1.20	72.00			
TB2	30	2	1.20	72.00			
Roof Rods	24	1	1.20	28.80			
				144.00	0.39	**56.16**	
Main Rods 10mm Dia (0.12c/c)							
Alternative Crank Rods	26	1	5.10	132.60			
Tension Rods	26	2	1.50	78.00			
Stright Bottom & Top Rods	25	4	5.10	510.00			
	49	1	1.50	73.50			
				794.10	0.62	**492.34**	
Distrubution Rods 8mm Dia (0.15c/c)							
Alternative Crank Rods	18	1	6.20	111.60			
Tension Rods	18	3	1.80	97.20			
Stright Bottom & Top Rods	17	4	6.20	421.60			
	20	1	3.00	60.00			
				690.40	0.39	**269.26**	
First floor							
Columns:- 17/06/2024							
20 mm Dia Vertical Main Rods							
	8	6	4.50	216.00			
				216.00	2.42	**522.72**	
Stirrupps, 8 mm Dia (0.20c/c)							
Single Stirrup's							
	8	6	1.20	57.60			
Double Stirrup's							
	18	6	0.70	75.60			
				133.20	0.39	**51.95**	
Measurements Continued on:- 24/06/2024							
Lintel Beam :-							
Main Bottom & Top Rods,12 mm Dia							
	2	2	6.20	24.80			
	2	2	5.10	20.40			
				45.20	0.89	**40.23**	
10mm Dia							
	4	2	6.20	49.60			
	4	2	5.10	40.80			
				90.40	0.62	**56.05**	
Stirrup,s 8mm Dia (0.20c/c)							
	29	2	0.80	46.40			
	24	2	0.80	38.40			
				84.80	0.39	**33.07**	
Chejj's:- Main Rods 8mm Dia (0.15c/c)							
FF:-Chejja	14	1	1.20	16.80			
Distrubution Rods 8mm Dia(0.20c/c)							
FF:-Chejja	5	1	2.05	10.25			
				27.05	0.39	**10.55**	
Staire case:-Main Rods 10mm Dia (0.12c/c)							

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ynk. Zn)

1st flight	7	1	6.00	42.00			
Landing	2	1	1.35	2.70			
2nd flight	19	1	4.50	85.50			
				130.20	0.62	**80.72**	
Distrubution Rods 8mm Dia(0.15c/c)							
1st flight	35	1	0.75	26.25			
Landing	13	1	1.50	19.50			
2nd flight	17	1	0.75	12.75			
				58.50	0.39	**22.82**	
Measurements Continued on:- 09/07/2024							
Tie Beam :-							
Top Rods,20 mm Dia							
TB1	3	2	6.80	40.80			
TB2	4	2	7.20	57.60			
	4	1	5.80	23.20			
				121.60	2.42	**294.27**	
Bottom Rods,:-16 mm Dia							
TB1	4	2	6.80	54.40			
TB2	3	2	7.20	43.20			
	3	1	5.80	17.40			
				115.00	1.58	**181.70**	
Stirrup,s 8mm Dia (0.20c/c)							
TB1	30	2	1.20	72.00			
TB2	30	2	1.20	72.00			
	24	1	1.20	28.80			
				144.00	0.39	**56.16**	
Roof Rods							
Main Rods 10mm Dia (0.12c/c)							
Alternative Crank Rods	26	1	5.10	132.60			
Tension Rods	26	2	1.50	78.00			
Stright Bottom & Top Rods	25	4	5.10	510.00			
	49	1	1.50	73.50			
				794.10	0.62	**492.34**	
Distrubution Rods 8mm Dia (0.15c/c)							
Alternative Crank Rods	18	1	6.20	111.60			
Tension Rods	18	3	1.80	97.20			
Stright Bottom & Top Rods	17	4	6.20	421.60			
	20	1	2.85	57.00			
				687.40	0.39	**268.09**	
				Total Qty		**9417.30**	

Assistant Engineer
Ward No-02

Asst. Executive Engineer
Yelahanka Sub. Divisor
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Yelahanka. Bangalore

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